



09/674109 #10

## SEQUENCE LISTING

&lt;110&gt; HOECHST MARION ROUSSEL

<120> METHOD FOR SCREENING ANTIMYCOTIC SUBSTANCES USING  
ESSENTIAL GENES FROM S.CEREVISIAE

&lt;130&gt; 16363PC RUU 7

&lt;140&gt;

&lt;141&gt;

&lt;150&gt; 98402254.1

&lt;151&gt; 1998-09-11

&lt;150&gt; 98401007.4

&lt;151&gt; 1998-04-24

&lt;160&gt; 180

&lt;170&gt; PatentIn Ver. 2.1

&lt;210&gt; 1

&lt;211&gt; 59

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: primer  
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&lt;210&gt; 2

&lt;211&gt; 59

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: primer  
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&lt;400&gt; 2

tttgggtctc gcactttctc agtcttccaa ctaatttctc cagctgaagc ttcgtacgc 59

&lt;210&gt; 3

&lt;211&gt; 59

&lt;212&gt; DNA

&lt;213&gt; Artificial Sequence

&lt;220&gt;

<223> Description of Artificial Sequence: primer  
YLR275w-S1

&lt;400&gt; 3

ccggttttatc atgtcgtatg ttgatctta accattttta cagctgaagc ttcgtacgc 59

&lt;210&gt; 4

&lt;211&gt; 62

&lt;212&gt; DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer  
YLR275w-S2

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caacgataac tgaatcacct cttagaata gtttacttat gcataggcca ctagtggatc 60  
tg 62

<210> 5

<211> 59

<212> DNA

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<223> Description of Artificial Sequence: primer  
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<400> 5

cttcaacggg tctactttac cattctttgg cttactgact cagctgaagc ttcgtacgc 59

<210> 6

<211> 62

<212> DNA

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<223> Description of Artificial Sequence: primer  
YLR276c-S2

<400> 6

agctatgaga aaaagtctgt ggaaggcgct tatattgacg gcataggcca ctagtggatc 60  
tg 62

<210> 7

<211> 59

<212> DNA

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<223> Description of Artificial Sequence: primer  
YLR317w-S1

<400> 7

ctgccatctt ctgccaccac tttgtccttc tttcttgatg cagctgaagc ttcgtacgc 59

<210> 8

<211> 59

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer  
YLR359w-S1

<400> 8

ggctattgct gagaaggaat tgggcttaac tgttggtaca cagctgaagc ttcgtacgc 59

<210> 9

<211> 62

<212> DNA  
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YLR359w-S2

<400> 9  
aacttgactt gttcatcggt taggtacttt tggaaagggt gcataggcca ctagtggatc 60  
tg 62

<210> 10  
<211> 59  
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<223> Description of Artificial Sequence: primer  
YLR373c-S1

<400> 10  
acacacaggt acagagtgtt gaaagaggat tgggtgttggc cagctgaagc ttcgtacgc 59

<210> 11  
<211> 62  
<212> DNA  
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YLR373c-S2

<400> 11  
caaacagact ttgttccttt gtatgtccta tggaagatac gcataggcca ctagtggatc 60  
tg 62

<210> 12  
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YLR424w-S1

<400> 12  
gacatgacat aactaatga tgccttgaaa actagtagcg cagctgaagc ttcgtacgc 59

<210> 13  
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YLR424w-S2

<400> 13  
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tg 62

<210> 14  
<211> 59  
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YLR437c-S1

<400> 14  
attgtgcaag tctgttaaag tcttctcttg gatccattaa cagctgaagc ttcgtacgc 59

<210> 15  
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YLR437c-S2

<400> 15  
catcacacac taatacagga acaaacaaga cttaatggac gcataggcca ctagtggatc 60  
tg 62

<210> 16  
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YLR440c-S1

<400> 16  
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<210> 17  
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YLR440c-S2

<400> 17  
gctccaattc tagtgtgtc cattgcgatg taacaatttc gcataggcca ctagtggatc 60  
tg 62

<210> 18  
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YFL024c-S1

<400> 18  
tgatgaattt ttctgggtta tagaagagtt ctgtttcgct cagctgaagc ttcgtacgc 59

<210> 19  
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YML049c-S2

<400> 19  
actcctgcat cggacacttc gtcgatctgg aagcagggtc gcataggcca ctagtggatc 60  
tg 62

<210> 20  
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<223> Description of Artificial Sequence: primer  
YFL024c-S2

<400> 20  
acacattcaa acgctataga gatcaatgac ggttcgcata gcataggcca ctagtggatc 60  
tg 62

<210> 21  
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YFR003c-S1

<400> 21  
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<210> 22  
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YFR003c-S2

<400> 22  
atcttctttg tctacgttcg ttaaagtcaa gtccttctc gcataggcca ctagtggatc 60  
tg 62

<210> 23  
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YFR027w-S1

<400> 23  
aatgaaagct aggaaatcgc agagaaaagc gggcagtaaa cagctgaagc ttcgtacgc 59

<210> 24  
<211> 62  
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YFR027w-S2

<400> 24  
aatttggttg cgatacccaa cttccttgct gtcctgcaca gcataggcca ctagtggatc 60  
tg 62

<210> 25  
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YFR042w-S1

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agtttgcacc aatggcaata tgctgtgat aaagataagg cagctgaagc ttcgtacgc 59

<210> 26  
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YFR042w-S2

<400> 26  
catggaagtt atttggttgc ttagattcca cgggttcaaa gcataggcca ctagtggatc 60  
tg 62

<210> 27  
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YIL109c-S1

<400> 27  
tgtctcatca caagaaacgt gtttaccac aagctcagct cagctgaagc ttcgtacgc 59

<210> 28  
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YML077w-S1

<400> 28  
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<210> 29

<211> 62

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YIL109c-S2

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tg 62

<210> 30

<211> 59

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<223> Description of Artificial Sequence: primer  
YIL091c-S1

<400> 30  
agtgcaggtt ctgtgagggg aaagaatgat aatttccgtg cagctgaagc ttcgtacgc 59

<210> 31

<211> 62

<212> DNA

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<223> Description of Artificial Sequence: primer  
YIL091c-S2

<400> 31  
cattgtaaaa ttcaggattg tttggaggct tataaaaaac gcataggcca ctagtggatc 60  
tg 62

<210> 32

<211> 59

<212> DNA

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<223> Description of Artificial Sequence: primer  
YIL083c-S1

<400> 32  
acctctaccc gtgctcaaca gacctcaaat tcatacgtct cagctgaagc ttcgtacgc 59

<210> 33

<211> 62

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer  
YIL083c-S2

<400> 33  
cgatgacttc tgggattatc atctcttcaa tgatatggtg gcataggcca ctagtggatc 60  
tg 62

<210> 34  
<211> 59  
<212> DNA  
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YIL019w-S1

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ttcaaagaaa agcttttgaa agtcagttcg gatctttaga cagctgaagc ttcgtacgc 59

<210> 35  
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YIL019w-S2

<400> 35  
tagcgacggg atttcttttt gccattaaat ttaccactcc gcataggcca ctagtggatc 60  
tg 62

<210> 36  
<211> 59  
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YIL104c-S1

<400> 36  
tccccttact atttaagatt aagatttctt cacgaattaa cagctgaagc ttcgtacgc 59

<210> 37  
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<223> Description of Artificial Sequence: primer  
YIL104c-S2

<400> 37  
cctgatacct gtaatgattg caatcttgat gagagagctg gcataggcca ctagtggatc 60  
tg 62

<210> 38  
<211> 59  
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<220>

<223> Description of Artificial Sequence: primer  
YIR010w-S1

<400> 38

atgagtctgg aacccacaca aacggtctcc ggtacgccgc cagctgaagc ttcgtacgc 59

<210> 39

<211> 62

<212> DNA

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<223> Description of Artificial Sequence: primer  
YML077w-S2

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ttctattggt gatctttctt gtcccttgac ctctcatttc gcataggcca ctagtggatc 60  
tg 62

<210> 40

<211> 62

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YIR010w-S2

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tg 62

<210> 41

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YIR015w-S1

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gcgaaccagg accattttcca tagattaaac tacctctacc cagctgaagc ttcgtacgc 59

<210> 42

<211> 62

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<223> Description of Artificial Sequence: primer  
YIR015w-S2

<400> 42

atttccagtt tttttggggt ccataacaac cgatggcatt gcataggcca ctagtggatc 60  
tg 62

<210> 43

<211> 59  
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<223> Description of Artificial Sequence: primer  
YPL233w-S1

<400> 43  
atgtcacaaag gtcagtccaa aaaactggac gtaactgttg cagctgaagc ttcgtacgc 59

<210> 44  
<211> 62  
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<223> Description of Artificial Sequence: primer  
YPL233w-S2

<400> 44  
caatcctcct ccaggaagtc cattaagcgc ttgacctttt gcataggcca ctagtggatc 60  
tg 62

<210> 45  
<211> 59  
<212> DNA  
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<223> Description of Artificial Sequence: primer  
YPL146c-S1

<400> 45  
tccaactaat ctaaccaaga aaccatctca atacaaacag cagctgaagc ttcgtacgc 59

<210> 46  
<211> 62  
<212> DNA  
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<223> Description of Artificial Sequence: primer  
YPL146c-S2

<400> 46  
tttgaagtcc ttatgtgtcc actttttcagt gattttctgc gcataggcca ctagtggatc 60  
tg 62

<210> 47  
<211> 59  
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<223> Description of Artificial Sequence: primer  
YPL126w-S1

<400> 47  
atgacgcaat ccctaggtat cgaacagtat aaactgtcag cagctgaagc ttcgtacgc 59

<210> 48  
<211> 62  
<212> DNA  
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<223> Description of Artificial Sequence: primer  
YPL126w-S2

<400> 48  
tatgttaata ctttcatcac acgatcaaaa aatgtatcca gcataggcca ctagtggatc 60  
tg 62

<210> 49  
<211> 59  
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YPL093w-S1

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caagattaca agaatcagag cgttctatat gcgtaaagtt cagctgaagc ttcgtacgc 59

<210> 50  
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YML093w-S1

<400> 50  
gctaacttaa atatggcaaa aaagaaatct aagagcagat cagctgaagc ttcgtacgc 59

<210> 51  
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YPL093w-S2

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cggaaatctg tcttaccgac accacgctta ccactgaata gcataggcca ctagtggatc 60  
tg 62

<210> 52  
<211> 59  
<212> DNA  
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YPL063w-S1

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<210> 53  
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YPL063w-S2

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tg 62

<210> 54  
<211> 59  
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<223> Description of Artificial Sequence: primer  
YPL024w-S1

<400> 54  
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<210> 55  
<211> 62  
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YPL024w-S2

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tg 62

<210> 56  
<211> 59  
<212> DNA  
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<400> 56  
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<210> 57  
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YPL020c-S2

<400> 57

tcgggttaaaa tcaaattgggc aataaatctt ctcattcctaa gcataggcca ctagtggatc 60  
tg 62

<210> 58

<211> 59

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer  
YPL012w-S1

<400> 58

atggatcaag acaaagttgc ttttctttta gagctggagg cagctgaagc ttcgtacgc 59

<210> 59

<211> 62

<212> DNA

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<223> Description of Artificial Sequence: primer  
YPL012w-S2

<400> 59

atttgaactt tggacctttc ttattatggt tgccaatctt gcataggcca ctagtggatc 60  
tg 62

<210> 60

<211> 59

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer  
YPL007c-S1

<400> 60

cccgttggtt gctcacggga catatcttta catgcgttgt cagctgaagc ttcgtacgc 59

<210> 61

<211> 62

<212> DNA

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<223> Description of Artificial Sequence: primer  
YML093w-S2

<400> 61

caaaggatca ataacttggc ctggcttagt catgattctc gcataggcca ctagtggatc 60  
tg 62

<210> 62

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YPL007c-S2

<400> 62  
ggacttattg gtagatagaa aggaatttga ggattggaag gcataggcca ctagtggatc 60  
tg 62

<210> 63

<211> 59

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<223> Description of Artificial Sequence: primer  
YPR048w-S1

<400> 63  
atgtcatcga gcaagaaaat cgtcacctc tatggatcgg cagctgaagc ttcgtacgc 59

<210> 64

<211> 62

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<223> Description of Artificial Sequence: primer  
YPR048w-S2

<400> 64  
aattagttat ttcctcacct aatctccata agtagtcttg gcataggcca ctagtggatc 60  
tg 62

<210> 65

<211> 59

<212> DNA

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<223> Description of Artificial Sequence: primer  
YPR072w-S1

<400> 65  
tgtctcaaag aaagctacaa caggatatcg ataagctttt cagctgaagc ttcgtacgc 59

<210> 66

<211> 62

<212> DNA

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<223> Description of Artificial Sequence: primer  
YPR072w-S2

<400> 66  
agatttgccc attcctggtg gtaacttttc gatttcttta gcataggcca ctagtggatc 60  
tg 62

<210> 67

<211> 59

<212> DNA

<213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: primer  
 YPR082c-S1

<400> 67  
 cttcgattgc tgaaagagta aggaactttg cagttattta cagctgaagc ttcgtacgc 59

<210> 68  
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<220>  
 <223> Description of Artificial Sequence: primer  
 YPR082c-S2

<400> 68  
 caataaagtt caacttggtg ttgttccttg taccaaaatc gcataggcca ctagtggatc 60  
 tg 62

<210> 69  
 <211> 59  
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 <223> Description of Artificial Sequence: primer  
 YPR085c-S1

<400> 69  
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<210> 70  
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 YPR085c-S2

<400> 70  
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 tg 62

<210> 71  
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<400> 71  
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<210> 72  
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YPR105c-S1

<400> 72

agctcgatca tcgagggcca attgtctaaa aatctagcaa cagctgaagc ttcgtacgc 59

<210> 73

<211> 62

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YPR105c-S2

<400> 73

ctgtgttcta tcaatcttca tatttctagc tttaattctt gcataggcca ctagtggatc 60  
tg 62

<210> 74

<211> 59

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<223> Description of Artificial Sequence: primer  
YPR112c-S1

<400> 74

cattgtcaag ggtttgcccg tctatctaac agatgataat cagctgaagc ttcgtacgc 59

<210> 75

<211> 59

<212> DNA

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<223> Description of Artificial Sequence: primer  
YPR137c-S1

<400> 75

atgtcagatg ttaccaaca gaaaaagagg aaaagatcca cagctgaagc ttcgtacgc 59

<210> 76

<211> 62

<212> DNA

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<223> Description of Artificial Sequence: primer  
YPR112c-S2

<400> 76

gaaaccttcg ttttcttcat catccacatc cagtttcttt gcataggcca ctagtggatc 60  
tg 62

<210> 77

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<212> DNA



<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer  
YPR143w-S1

<400> 77

atggggtcca agcacagagt agacactaag gataagaaaa cagctgaagc ttcgtacgc 59

<210> 78

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YPR143w-S2

<400> 78

ttcattgtcg cttcctgcgg cagctttaac taaatccaaa gcataggcca ctagtggatc 60  
tg 62

<210> 79

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ttccagaaaa tggtactcaa ttggaagaag atgagacaga cagctgaagc ttcgtacgc 59

<210> 80

<211> 62

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YPR144c-S2

<400> 80

ccatgctacc ccaggcaagt agacgttacc ttgggatgac gcataggcca ctagtggatc 60  
tg 62

<210> 81

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<223> Description of Artificial Sequence: primer  
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<400> 81

gactttagt agcatcgata ttggttgtgt tatgtgctac gcataggcca ctagtggatc 60  
tg 62

<210> 82  
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<223> Description of Artificial Sequence: primer  
YPR169w-S1

<400> 82  
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<210> 83  
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<223> Description of Artificial Sequence: primer  
YPR169w-S2

<400> 83  
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tg 62

<210> 84  
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<212> DNA  
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<223> Description of Artificial Sequence: primer  
YML127w-S1

<400> 84  
ccgctaaatg gtactccagt aagcgaggca cccgccacaa cagctgaagc ttcgtacgc 59

<210> 85  
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<220>  
<223> Description of Artificial Sequence: primer  
YML127w-S2

<400> 85  
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tg 62

<210> 86  
<211> 59  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YMR032w-S1

<400> 86  
ctacagttat gaagcttggt tttgggaccc aaacgacaat cagctgaagc ttcgtacgc 59

<210> 87  
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<223> Description of Artificial Sequence: primer  
YMR032w-S2

<400> 87  
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tg 62

<210> 88  
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<220>  
<223> Description of Artificial Sequence: primer  
YMR093w-S1

<400> 88  
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<210> 89  
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<223> Description of Artificial Sequence: primer  
YMR093w-S2

<400> 89  
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tg 62

<210> 90  
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<220>  
<223> Description of Artificial Sequence: primer  
YMR131c-S1

<400> 90  
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<210> 91  
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<223> Description of Artificial Sequence: primer  
YMR131c-S2

<400> 91

ggctctatcga ggtcaacgag gaacaagata gagggtctc gcataggcca ctagtggatc 60  
tg 62

<210> 92

<211> 59

<212> DNA

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<223> Description of Artificial Sequence: primer  
YMR185w-S1

<400> 92

atcaacatac acgatatatt gaatacaaga ccgaagctca cagctgaagc ttcgtacgc 59

<210> 93

<211> 62

<212> DNA

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<223> Description of Artificial Sequence: primer  
YMR185w-S2

<400> 93

gtaatggggt ataaactatc tagtacgggt aaaagcttgt gcataggcca ctagtggatc 60  
tg 62

<210> 94

<211> 59

<212> DNA

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<223> Description of Artificial Sequence: primer  
YMR212c-S1

<400> 94

cctcttgaac ttaaagaatg taaatcttca tttgcgtctt cagctgaagc ttcgtacgc 59

<210> 95

<211> 59

<212> DNA

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<223> Description of Artificial Sequence: primer  
YDR499w-S1

<400> 95

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<210> 96

<211> 62

<212> DNA

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<220>

<223> Description of Artificial Sequence: primer  
YMR212c-S2

<400> 96  
cggatgatgt tcacaccaaa acatcagaaa ctggtcaatc gcataggcca ctagtggatc 60  
tg 62

<210> 97  
<211> 59  
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<223> Description of Artificial Sequence: primer  
YMR213w-S1

<400> 97  
atacgtgaaa ggcggtgtat ggaccaatgt ggaggatcag cagctgaagc ttcgtacgc 59

<210> 98  
<211> 62  
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<223> Description of Artificial Sequence: primer  
YMR213w-S2

<400> 98  
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tg 62

<210> 99  
<211> 59  
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<223> Description of Artificial Sequence: primer  
YMR218c-S1

<400> 99  
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<210> 100  
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YMR218c-S2

<400> 100  
gaaggcattt gacggaactg tacgaacggt taacaggctt gcataggcca ctagtggatc 60  
tg 62

<210> 101  
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<223> Description of Artificial Sequence: primer  
YMR281w-S1

<400> 101  
ctgaagaaaa gttaaatgaa gatgttgagg cgtacaaagg cagctgaagc ttcgtacgc 59

<210> 102  
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<220>  
<223> Description of Artificial Sequence: primer  
YMR281w-S2

<400> 102  
agtacgtatt gtgcatgtgt attcataagt gaaagcttgt gcataggcca ctagtggatc 60  
tg 62

<210> 103  
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<220>  
<223> Description of Artificial Sequence: YMR288w-S1

<400> 103  
gaaaacctgc agaaagaagc tgcacgtatt ggtgagaacg cagctgaagc ttcgtacgc 59

<210> 104  
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<220>  
<223> Description of Artificial Sequence: primer  
YMR288w-S2

<400> 104  
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tg 62

<210> 105  
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<220>  
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YMR290c-S1

<400> 105  
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<210> 106  
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<220>

<223> Description of Artificial Sequence: primer  
YML049c-S1

<400> 106  
aattcctgct cattcaagga aagtctcagg aaattttcac cagctgaagc ttcgtacgc 59

<210> 107

<211> 62

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<223> Description of Artificial Sequence: primer  
YMR290c-S2

<400> 107  
gataagctga gcaatattaa caggagaagt atggctaccc gcataggcca ctagtggatc 60  
tg 62

<210> 108

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YMR211w-S1

<400> 108  
agagagcaaa ccatttgact actcaattct tcaatataca cagctgaagc ttcgtacgc 59

<210> 109

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YMR211w-S2

<400> 109  
atttcaatca tcttactccg tgaatcaggt tcggaatgat gcataggcca ctagtggatc 60  
tg 62

<210> 110

<211> 59

<212> DNA

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<220>

<223> Description of Artificial Sequence: primer  
YDR196c-S1

<400> 110  
atgcttatga tcaaattgtg ttatacttca aggacaaaat cagctgaagc ttcgtacgc 59

<210> 111

<211> 62

<212> DNA

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<223> Description of Artificial Sequence: primer  
YDR196c-S2

<400> 111

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tg 62

<210> 112

<211> 59

<212> DNA

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<223> Description of Artificial Sequence: primer  
YDR299w-S1

<400> 112

atggaaaaat cactagcgga tcaaatttcc gatatcgcca cagctgaagc ttcgtacgc 59

<210> 113

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YDR299w-S2

<400> 113

caaagatttg gatatcatcg tttttaacag cctctaattc gcataggcca ctagtggatc 60  
tg 62

<210> 114

<211> 59

<212> DNA

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<223> Description of Artificial Sequence: primer  
YDR365c-S1

<400> 114

ctggagagaa cccaaagaag gaaggtgtag atgctagggt cagctgaagc ttcgtacgc 59

<210> 115

<211> 62

<212> DNA

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<223> Description of Artificial Sequence: primer  
YDR365c-S2

<400> 115

ttagtatgct ttttattaac agatttcaac ttgcttttct gcataggcca ctagtggatc 60  
tg 62

<210> 116

<211> 59

<212> DNA



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<223> Description of Artificial Sequence: primer  
YDR396w-S1

<400> 116

cagatacact attgtggtgt aatctggacc ttgactgtct cagctgaagc ttcgtacgc 59

<210> 117

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YMR211w-S2

<400> 117

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tg 62

<210> 118

<211> 62

<212> DNA

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<223> Description of Artificial Sequence: primer  
YDR396w-S2

<400> 118

tagagaaaac actgaatgat cttagcgacc gtacaaaaga gcataggcca ctagtggatc 60  
tg 62

<210> 119

<211> 59

<212> DNA

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<220>

<223> Description of Artificial Sequence: primer  
YDR407c-S1

<400> 119

ttcttaagca tttcccaagc tatgttggcc catctaagat cagctgaagc ttcgtacgc 59

<210> 120

<211> 62

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer  
YDR407c-S2

<400> 120

aataacagac aagataacgt tttcagagtc gaactggatt gcataggcca ctagtggatc 60  
tg 62

<210> 121  
<211> 59  
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<220>  
<223> Description of Artificial Sequence: primer  
YDR416w-S1

<400> 121  
acttacatgg aaaagatata tcgagtattg gaaagaggag cagctgaagc ttcgtacgc 59

<210> 122  
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<223> Description of Artificial Sequence: YDR416w-S2

<400> 122  
tcaaatatct agttctatct catctggatt aatcgaatat gcataggcca ctagtggatc 60  
tg 62

<210> 123  
<211> 59  
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<223> Description of Artificial Sequence: primer  
YDR449c-S1

<400> 123  
cacatcaccg atttctaata atgtcgaaga caagatacta cagctgaagc ttcgtacgc 59

<210> 124  
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<223> Description of Artificial Sequence: primer  
YDR449c-S2

<400> 124  
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tg 62

<210> 125  
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<223> Description of Artificial Sequence: primer  
YDR141c-S1

<400> 125  
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<210> 126  
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<223> Description of Artificial Sequence: primer  
YDR141c-S2

<400> 126  
cactaaagcc ccttacaatt gactcaaata ataaacaact gcataggcca ctagtggatc 60  
tg 62

<210> 127  
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<220>  
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YDR324c-S1

<400> 127  
aagaagcctg aaaatacgaa acaaaccggt gaagatgacc cagctgaagc ttcgtacgc 59

<210> 128  
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YMR049c-S2

<400> 128  
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tg 62

<210> 129  
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<400> 129  
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tg 62

<210> 130  
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YDR325w-S1

<400> 130

gacattaata cgaaaatctt taactcagtt gctgaagtat cagctgaagc ttcgtacgc 59

<210> 131

<211> 62

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<223> Description of Artificial Sequence: primer  
YDR325w-S2

<400> 131

acctcgctga aagactctga atccttatct tcttcatcta gcataggcca ctagtggatc 60  
tg 62

<210> 132

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YDR398w-S1

<400> 132

atggattctc ctgttctaca gtccgcttat gacccatcag cagctgaagc ttcgtacgc 59

<210> 133

<211> 62

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer  
YDR398w-S2

<400> 133

aacgtcacta tatccggctt cctcctcgcc gtcgctctgc gcataggcca ctagtggatc 60  
tg 62

<210> 134

<211> 59

<212> DNA

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<220>

<223> Description of Artificial Sequence: primer  
YDR246w-S1

<400> 134

atggccatcg aaacaatact tgtaataaac aaatcaggcg cagctgaagc ttcgtacgc 59

<210> 135

<211> 62

<212> DNA

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<223> Description of Artificial Sequence: primer  
YDR246w-S2

<400> 135  
aacagggttag atcttatagg catttccatt gagtaagatg gcataggcca ctagtggatc 60  
tg 62

<210> 136  
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<223> Description of Artificial Sequence: primer  
YDR236c-S1

<400> 136  
ctaaaatatt gaacttgacc ctggcccat aaaaatcatt cagctgaagc ttcgtacgc 59

<210> 137  
<211> 62  
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<223> Description of Artificial Sequence: primer  
YDR236c-S2

<400> 137  
ttgaagtgtt gatgtttacg tggactatct atgtttcgtt gcataggcca ctagtggatc 60  
tg 62

<210> 138  
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<220>  
<223> Description of Artificial Sequence: primer  
YDR361c-S2

<400> 138  
ttaccaagtg gaaatttctg tttccaattc atcgatactt gcataggcca ctagtggatc 60  
tg 62

<210> 139  
<211> 59  
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YMR134w-S1

<400> 139  
gcaaagtgtg gtatagaaaa agaaccaaag gccggtatgt cagctgaagc ttcgtacgc 59

<210> 140  
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YDR361c-S1

<400> 140  
ggttcaagct atcaaattaa atgatttaaa aaataggaag cagctgaagc ttcgtacgc 59

<210> 141  
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<223> Description of Artificial Sequence: primer  
YDR367w-S1

<400> 141  
atctgcgtac tttatacaat cgataccatt tccacttggt cagctgaagc ttcgtacgc 59

<210> 142  
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YDR367w-S2

<400> 142  
gttttgttct acgtcatccc tatcaactaa atatttgggg gcataggcca ctagtggatc 60  
tg 62

<210> 143  
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<220>  
<223> Description of Artificial Sequence: YDR339c-S1

<400> 143  
tatgggtaaa gctaagaaaa caagaaagtt tggcctcgta cagctgaagc ttcgtacgc 59

<210> 144  
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<220>  
<223> Description of Artificial Sequence: primer  
YDR339c-S2

<400> 144  
taaaagacat ctggcaattt ttcaatgacg tatgcgtgac gcataggcca ctagtggatc 60  
tg 62

<210> 145  
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<220>

<223> Description of Artificial Sequence: primer  
YDR413c-S1

<400> 145  
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<210> 146  
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<223> Description of Artificial Sequence: primer  
YDR413c-S2

<400> 146  
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tg 62

<210> 147  
<211> 59  
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<220>  
<223> Description of Artificial Sequence: primer  
YDR429c-S1

<400> 147  
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<210> 148  
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<223> Description of Artificial Sequence: primer  
YDR429c-S2

<400> 148  
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tg 62

<210> 149  
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<220>  
<223> Description of Artificial Sequence: primer  
YDR468c-S1

<400> 149  
gtcacaatac tgctggtgat gacgatcaag aggaggaaat cagctgaagc ttcgtacgc 59

<210> 150  
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 <223> Description of Artificial Sequence: primer  
 YMR134w-S2

<400> 150  
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 tg 62

<210> 151  
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 <223> Description of Artificial Sequence: primer  
 YDR468c-S2

<400> 151  
 caagacgaca ataagaagtc ctatacaaca atcgtcgtat gcataggcca ctagtggatc 60  
 tg 62

<210> 152  
 <211> 59  
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<220>  
 <223> Description of Artificial Sequence: primer  
 YDR489w-S1

<400> 152  
 actaccaca gagatgcaaa tacaatagtg ggttcgtcct cagctgaagc ttcgtacgc 59

<210> 153  
 <211> 62  
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<220>  
 <223> Description of Artificial Sequence: primer  
 YDR527w-S2

<400> 153  
 cccaccgcc ttgtttccat aaccaaagtg catcaatagc gcataggcca ctagtggatc 60  
 tg 62

<210> 154  
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<220>  
 <223> Description of Artificial Sequence: primer  
 YDR288w-S1

<400> 154  
 atgagttcta tagataatga cagcgatgtg gatttaacag cagctgaagc ttcgtacgc 59

<210> 155  
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 <212> DNA



<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YDR288w-S2

<400> 155

gccccatgatt tcttgcacca atttttcaag agactctagt gcataggcca ctagtggatc 60  
tg 62

<210> 156

<211> 59

<212> DNA

<213> Artificial Sequence

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<223> Description of Artificial Sequence: primer  
YDR201w-S1

<400> 156

cccatgtctg gactattcag agcatcatcg tcatccatac cagctgaagc ttcgtacgc 59

<210> 157

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YDR201w-S2

<400> 157

aaaagggttt tccgttttagt tcccgaatat gatgttgaaa gcataggcca ctagtggatc 60  
tg 62

<210> 158

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YDR434w-S1

<400> 158

atgtccaatg caaatctaag aaaatgggtt gggttttgct cagctgaagc ttcgtacgc 59

<210> 159

<211> 59

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YML023c-S1

<400> 159

cacgcaatgg tgcacattat tttgttgaac tcactgagaa cagctgaagc ttcgtacgc 59

<210> 160

<211> 62

<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YDR434w-S2

<400> 160  
taaaggtaaa tacacagcta tcatgtgctc ttgtgggaag gcataggcca ctagtggatc 60  
tg 62

<210> 161  
<211> 59  
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<220>  
<223> Description of Artificial Sequence: primer  
YDR181c-S1

<400> 161  
aggataaacc caaatgctgg acatctaagg aaatctaagt cagctgaagc ttcgtacgc 59

<210> 162  
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<220>  
<223> Description of Artificial Sequence: primer  
YDR181c-S2

<400> 162  
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tg 62

<210> 163  
<211> 59  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YDR531w-S1

<400> 163  
atgccgcgaa ttactcaaga gatattcttac aattgcgatt cagctgaagc ttcgtacgc 59

<210> 164  
<211> 62  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence:  
primerYDR531w-S2

<400> 164  
aaataagcta tttgcccaat attgttggag atggcgaata gcataggcca ctagtggatc 60  
tg 62

<210> 165  
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<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YLR186w-S1

<400> 165  
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<210> 166  
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<212> DNA  
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<223> Description of Artificial Sequence: primer  
YLR186w-S2

<400> 166  
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tg 62

<210> 167  
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<220>  
<223> Description of Artificial Sequence:  
primerYDR472w-S1

<400> 167  
atgtctcaaa gaataattca accaagcgca tctgaccaac cagctgaagc ttcgtacgc 59

<210> 168  
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<220>  
<223> Description of Artificial Sequence: primer  
YLR215c-S1

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<210> 169  
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YLR215c-S2

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<210> 170  
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<220>  
<223> Description of Artificial Sequence: primer  
YML023c-S1

<400> 170  
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<210> 171  
<211> 62  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YLR243w-S2

<400> 171  
gataatatgg tttctatact gtcaggatta ttagattcca gcataggcca ctagtggatc 60  
tg 62

<210> 172  
<211> 62  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: PRIMER  
YLR272c-S2

<400> 172  
ggtaactgac ttcggttactt tatgagatgt ccggcttttag gcataggcca ctagtggatc 60  
tg 62

<210> 173  
<211> 62  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer  
YML023c-S2

<400> 173  
attagttact tattctataa ttacactttt atcatgaacg gcataggcca ctagtggatc 60  
tg 62

<210> 174  
<211> 62  
<212> DNA  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: primer  
YLR222c-S2

<400> 174  
aatatgtaac tttgttcaac taagttatca acccttgtga gcataggcca ctagtggatc 60  
tg 62

<210> 175  
<211> 59  
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<220>  
<223> Description of Artificial Sequence: primer  
YML049c-S1

<400> 175  
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<210> 176  
<211> 62  
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<220>  
<223> Description of Artificial Sequence: primer  
YLR317w-S2

<400> 176  
gaagtaaact aactagtaaa gtaggctaatt tcgaaacgat gcataggcca ctagtggatc 60  
tg 62

<210> 177  
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<220>  
<223> Description of Artificial Sequence: primer  
YDR472w-S2

<400> 177  
agccaaatct caaaccttcc ctgtcaagca cttgcctgtc gcataggcca ctagtggatg 60  
tg 62

<210> 178  
<211> 62  
<212> DNA  
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<220>  
<223> Description of Artificial Sequence: primer  
YDR489w-S2

<400> 178  
agtcgggctc atctatcatg tttacgtac cttctgtatc gcataggcca ctagtggatc 60  
tg 62

<210> 179  
<211> 59  
<212> DNA  
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<220>

<223> Description of Artificial Sequence: primer  
YDR527w-S1

<400> 179

atggacttac tgggcgatat agtggagaaa gatacatctg cagctgaagc ttcgtacgc 59

<210> 180

<211> 62

<212> DNA

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: primer  
YPR137w-S2

<400> 180

aaaagcctgt ttggtcaatg acagctgaat atataccatt gcataggcca ctagtggatc 60  
tg 62